

Message Text

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EPA/EXSEC:WBROWN (INFO)

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USDA:CHARRIS (INFO)

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R 012145Z DEC 76

FM SECSTATE WASHDC

TO AMEMBASSY MOSCOW

UNCLAS STATE 293075

E.O. 11652: N/A

TAGS: TGEN, UR, US

SUBJECT: US-USSR S&T AGREEMENT: MICROBIOLOGY 01.07

REF: STATE 272793

1. REQUEST EMBASSY TRANSMIT FOLLOWING FROM LEISE TO
SHENDEREY WITH COPY TO AYKAZYAN:

2. 01.07 - NOVEMBER 29, 1976

DEPUTY MINISTER E. R. SHENDEREY

MINISTRY OF MICROBIOLOGICAL INDUSTRY

U.S.S.R. COUNCIL OF MINISTERS

LESTOVA 18

MOSCOW

DEAR DR. SHENDEREY:

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MR. AYKAZYAN SUGGESTED TO MR. ROOT THAT THE U.S. SIDE PREPARE A FIRST DRAFT OF A JOINT REPORT FROM OUR WORKING GROUP TO BE SUBMITTED TO THE JOINT COMMISSION IN ADVANCE OF ITS NEXT MEETING, NOW SCHEDULED TO BE HELD IN WASHINGTON FEBRUARY 2. ENCLOSED WITH THIS TELEGRAPHIC LETTER PLEASE FIND A DRAFT OF THE SUMMARY AND

RECOMMENDATIONS PORTIONS. I HAVE POUCHED TODAY TO OUR EMBASSY IN MOSCOW FOR TRANSMITTAL TO YOU FOR YOUR REVIEW THE PORTION ON OUR ACCOMPLISHMENTS.

I WOULD LIKE TO ELABORATE A BIT ON HOW WE SEE THE SHIFT FROM INDUSTRIAL TO ACADEMIC FOCUS AFFECTING EACH OF OUR SIX PROJECTS:

SINGLE CELL PROTEIN 01.0701: RESEARCH SHOULD BE PRIMARILY IN UNIVERSITY AND ACADEMIC INSTITUTIONS RATHER THAN IN INDUSTRY, EXCLUDING PROCESS TECHNOLOGY AND INDUSTRIAL RESEARCH AND DEVELOPMENT. THIS WOULD BE CONSISTENT WITH THE ACADEMIC ORIENTATION OF THE PRESENTATIONS AT THE MARCH 1976 CONFERENCE.

MICROBIAL PROCESS ENGINEERING RESEARCH 01.0702: PROCESS SECRECY PREVENTS MEANINGFUL INTERACTION AT THE PILOT PLANT OR PLANT SCALE OPERATION STAGES. INVESTIGATIONS ON MODELLING AND CONTROL SHOULD FOCUS ON BASIC MECHANISMS AND THEORY IN AN ACADEMIC ENVIRONMENT.

GENETICS OF MICROORGANISMS 01.0703: FUNDAMENTAL, INTER-DISCIPLINARY STUDIES TAKING INTO ACCOUNT NEW DEVELOPMENTS ARE CRITICAL FOR ESTABLISHING THE BASIS ON WHICH TO BUILD THE OTHER COOPERATIVE PROJECTS IN MICROBIOLOGY.

MICROBIAL ENZYME REACTIONS 01.0704: INDUSTRIAL ORIENTED RESEARCH SHOULD BE EXCLUDED. COOPERATIVE EFFORTS SHOULD CONCENTRATE ON THE KINETICS OF THE REACTION MECHANISMS OF CELLULASE AND HEMICELLULASE ENZYMES, THE MECHANISMS AND PARAMETERS INVOLVED IN LIGHT INDUCED ENZYME REACTIONS, THE EFFECTS OF MECHANICAL FORCE AND REACTION RATES ON SOUND INDUCED ENZYME SYSTEMS, AND THE CONVERSION OF AMINO UNCLASSIFIED

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ACIDS TO THE CORRESPONDING KETO ACIDS (POTENTIAL MEDICAL APPLICATIONS WOULD NOT BE THE MAIN THRUST).

MICROBIOLOGICAL CONTROL OF INSECT PESTS 01.0705: WORK SHOULD BE ORGANIZED TO OBTAIN BASIC INFORMATION THAT WILL EVENTUALLY CONTRIBUTE TO THE SUCCESSFUL USE OF MICROBIOLOGICAL PREPARATIONS TO CONTROL AGRICULTURAL INSECT PESTS, INCLUDING STUDIES ON NUTRITION, GROWTH,

DEVELOPMENT, AND SPORULATION OF FIVE SPECIES OF ENTOMOPATHOGENIC FUNGI AND OTHER STUDIES ON THE GROWTH OF INSECT CELL LINES AND THE GENETICS, PHAGE RESISTANCE, ISOLATION, SELECTION, AND DEVELOPMENT OF VIRULENT ENTOMOPATHOGENS.

GEOMICROBIOLOGY 01.0706: THREE SUBJECTS UNDER THIS TOPIC, TERTIARY OIL RECOVERY, EXTRACTION OF METALS FROM ORES AND

PROSPECTING FOR OIL AND GAS, WILL BE APPROACHED FROM THE ACADEMIC SIDE AND ANY INDUSTRIAL LEADS OBTAINED WILL BE PASSED ON TO INDUSTRIAL R&D ORGANIZATIONS FOR FURTHER WORK.

I LOOK FORWARD TO RECEIVING YOUR COMMENT ON THE ENCLOSED DRAFT, ON THE PORTION BEING MAILED SEPARATELY, AND ON THE ABOVE US VIEWS ON HOW THE SHIFT FROM INDUSTRIAL TO ACADEMIC FOCUS SHOULD AFFECT OUR ORGANIZATION AND WORK.

SINCERELY YOURS,

JOSHUA LEISE
US CHAIRMAN OF JOINT WORKING GROUP
ON MICROBIOLOGY
CC:MR. AYKAZYAN, SCST.
ENCLOSURE

DRAFT EXCERPTS FOR REPORT FROM THE MICROBIOLOGY WORKING GROUP TO THE JOINT COMMISSION

SUMMARY: IN MICROBIOLOGY, JOINT CONFERENCES, EXCHANGE AND DISCUSSION OF RESEARCH RESULTS, AND LABORATORY VISITS HAVE CONTRIBUTED TO A SUCCESSFUL PROGRAM. THERE HAS BEEN UNCLASSIFIED

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JOINT WORK ON A CELLULOSE DEGRADATION MODEL, MICROBIAL CULTURES OF GENETIC INTEREST HAVE BEEN EXCHANGED, AND PAPERS ARE BEING PREPARED FOR JOINT PUBLICATION.

RECOMMENDATIONS: IT IS RECOMMENDED THAT THE JOINT COMMISSION:

A) NOTE THE EXCHANGE OF LETTERS BETWEEN THE JOINT COMMISSION CO-CHAIRMEN APPROVING THE ESTABLISHMENT OF A SIXTH PROJECT, GEOMICROBIOLOGY;

B) APPROVE PLANS TO REORIENT WORK ON AN ACADEMIC RATHER THAN ON AN INDUSTRIAL BASIS, INCLUDING REVISING PROJECT TITLES AS FOLLOWS: SINGLE CELL PROTEIN; MICROBIAL PROCESS ENGINEERING RESEARCH; GENETICS OF MICROORGANISMS;

MICROBIAL ENZYME REACTIONS; MICROBIOLOGICAL CONTROL OF
INSECT PESTS; AND GEOMICROBIOLOGICAL RESEARCH;

C) URGE AN INCREASE IN THE NUMBER AND FREQUENCY OF JOINT
RESEARCH CONFERENCES AND OF LONG-TERM PERSONNEL EXCHANGES.

3. FYI. REPORT, REFERRED TO IN FINAL PARA OF LETTER
TO SHENDEREY, POUCHED DECEMBER 1, REGISTRY 3017976, FOR
TRANSMITTAL TO SHENDEREY THROUGH AYKAZYAN. END FYI. ROBINSON

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